

1986  
Spring Meeting of MAA  
at  
Mesa College  
Friday, April 25



12:00-1:00 DEPARTMENT CHAIRS LUNCHEON - Bacon Room

12:30-3:30 REGISTRATION

Presider - Della Mottram

Presider - Donna Hafner

Presider - Charles Bailey

1:30-1:45 <sup>(1)</sup> RICHARD C. WALKER - FORT LEWIS  
"Coordinate Transformations"  
Zeigel Room

<sup>(2)</sup> JOEL S. COHEN - UNIV. OF DENVER  
"A Course in Computer Algebra  
and Symbolic Manipulation"  
Boettcher Room

\* <sup>(3)</sup> PETER BAILEY - SENIOR - G.W.H.S.  
"PERT"  
Krey Room

1:45-2:00 <sup>(4)</sup> ROBBIN GILFORD - GRADUATE STUDENT  
CU/Denver  
"Determining Relative Position  
in 3-D Space"  
Zeigel Room

<sup>(5)</sup> DAVID BALLEW - SDSM&T  
"TA's Training Program"  
Boettcher Room

\* <sup>(6)</sup> SANDRA HENRY - STUDENT - Metro  
"Bessel and His Differential  
Equation" - Krey Room

2:00-2:30 <sup>(7)</sup> INVITED ADDRESS:  
JAMES CANNON - BYU  
"Group Theory in Low Dimensional  
Topology"  
Fletcher Room

\* <sup>(8)</sup> DEBRA HELLER - STUDENT - Metro  
"Fourier and Applications to  
Meteorology" - Krey Room

\* <sup>(9)</sup> DARRYL DREILING - STUDENT - Metro  
"The Two-Body Problem - A View  
from the Velocity Phase Space"  
Krey Room

2:30-2:45 <sup>(10)</sup> JOHN HENSON - MESA COLLEGE  
"Pair Factorials"  
Zeigel Room

<sup>(11)</sup> EDWARD HALTEMAN - ROCKWELL  
INTERNATIONAL  
"Confidence Regions and Bands"  
Boettcher Room

\* <sup>(12)</sup> JACK LYNCH - STUDENT - Metro  
"The Fourth Dimension - Points  
of View" - Movie "The Hypercube:  
Projections and Slicing - 10 min.  
Krey Room

2:45-3:00 BREAK

Presider - Calvin Luke

Presider - Lori Payne

Presider - George S. Donovan

3:00-3:15 <sup>(14)</sup> RICHARD TEBBS - SUSC  
"How to Enjoy Teaching  
Trigonometry!"  
Zeigel Room

<sup>(13)</sup> LINEAR ALGEBRA WORKSHOP  
THOMAS KELLY - METRO  
Houston Hall Room 128

\* <sup>(12)</sup> GEORGE C. DONOVAN - STUDENT - REGIS  
HIGH  
"Fractals" - Krey Room

Friday, April 25

Presider - Cliff Britton

- 3:15-3:30 RICHARD TEBBS - SUSC (continued) LINEAR ALGEBRA WORKSHOP (continued) (15)\* JEFF SALT - STUDENT - WEBER STATE "Algorithmic Solvability and the Word Problem" - Krey Room
- Presider - Calvin Luke Presider - John Henson
- 3:30-3:45 (16) A. SHIDFAR - CSU "Some Series Solution of Harmonic Equations" Zeigel Room (17) DON ELLIOTT - UNC "Transport Problem Part I" Boettcher Room
- 3:45-4:00 (18) RICHARD GIBBS - FORT LEWIS "Variety of Uses of Math Induction" - Zeigel Room (19) WILLIAM BOSCH - UNC "Transport Problem part II" Boettcher Room (20)\* SHANE HUBKER - SENIOR - COLORADO COLLEGE "Finite Single Forms for Bernoulli Numbers" - Krey Room
- 4:00-4:10 BREAK
- 4:10-4:25 (21) LEE BADGER - WEBER STATE "Lazzarinis Lucky Approximately of  $\pi$ " - Zeigel Room (22)\* PANEL DISCUSSION - SOFTWARE USAGE LLOYD BEST - MARTIN MARIETTA ENGR. NERBERT GREENBERG - U. OF DENVER THOMAS KELLEY - METRO ST. COLLEGE Houston Hall Room 128 \* PAUL GRAHAM - STUDENT - CHERRY CREEK "Transfinite and Infinitesimal Mathematics" Krey Room
- 4:25-4:40 (23) LAWRENCE O. CANNON - UTAH ST. U. "What Binomial Coefficients are Divisible by What Primes" Zeigel Room (24)\* PANEL DISCUSSION (continued) \* DAVE GIFFORD - STUDENT - IDAHO STATE "The Relationship Between Rook Polynomial and Matching of Graphs" - Krey Room
- 4:45-5:00 GOVERNOR'S REPORT - GARY GREFSRUD Intermountain Section Zeigel Room GOVERNOR'S REPORT Rocky Mountain Section Boettcher Room
- 6:00-7:00 RECEPTION - LIFF AUDITORIUM Wine/Cheese hosted by Mesa College
- 7:00 BANQUET - LIFF AUDITORIUM Welcome - President Tomlinson Guest Speaker - DR. DAVID BALLEW

Saturday, April 26

7:00-8:30 EXECUTIVE BREAKFAST MEETING IN BACON ROOM FOR ROCKY MOUNTAIN SECTION  
EXECUTIVE BREAKFAST MEETING IN GARY ROOM FOR INTERMOUNTAIN SECTION

8:30-9:00 ROCKY MOUNTAIN BUSINESS MEETING - LIFF AUDITORIUM  
INTERMOUNTAIN BUSINESS MEETING - BOETTCHER ROOM

9:00-9:45 Presider - Stephen Bronn - Liff Auditorium  
GUEST SPEAKER  
PROFESSOR PAUL HALMOS  
"Problems That I Cannot Solve"

9:45-10:00 Presider - Cliff Britton

Presider - John Henson

Presider - Calvin Luke

9:45-10:00 GEORGE GINGERY  
"Sieve of Erathosthenes"  
Zeigel Room

JAMES LAVITA - UNIV. OF DENVER  
"From Statistics to Sherlock"  
Boettcher Room

\* JANET BRADFORD - STUDENT - IDAHO  
STATE  
"Adjacency Matrices and Graph  
Homomorphisms" - Krey Room

10:00-10:15 GORDON GILBERT - MESA  
"Differential Forms in LaGrangian  
Mechanics"  
Zeigel Room

LLOYD BEST - MARTIN MARIETTA  
"Increased Accuracy in Nonlinear  
Programming"  
Boettcher Room

\* CATHY KUNICKI - STUDENT - IDAHO  
"Balanced Sets Mod N"  
Krey Room

10:15-10:30 A. SHIDFAR - CSU  
"On the Continuity of  
Non-Differentiable Functions in  
Holder Sense"  
Zeigel Room

LLOYD BEST (continued)

GAIL GLINER - PROF - METRO  
"Math Anxiety Study"  
Krey Room

10:30-10:45 BEN MANUEL - CSU  
"Reconstruction of Sequences"  
Zeigel Room

HUNG LI - USC  
"Exact Probability of Obtaining  
All Real Roots"  
Boettcher Room

10:45-11:00 BREAK

Saturday, Apr 26

Presider - Donna Hafner

11:00-11:30

#2  
INVITED ADDRESS  
MARTIN WALTER - CU  
"A Duality Between Algebra and  
Geometry"  
Fletcher Room

11:30-11:45

35  
REBEKKA STRUIK - CU  
"A Short Biography of Claribel  
Kendall"  
Zeigel Room

11:45-12:00

37  
DONALD R. SNOW - BYU  
"Generating Functions for Some  
Combinatorial Number Sequences"  
Zeigel Room

Presider - Charles Bailey

36  
RICK GILLMAN  
"Solutions to a Homomorphism,  
Equation for Digraphs"  
Boettcher Room

38  
ERIC FISHER  
"Recursion and Expanding Cos  $m\theta$ "  
Boettcher Room